Bandela Prathyusha

Final year, Computer Science and Engineering
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ACADEMIC PROFILE

Education	Institute	Year	Marks
Bachelor of Technology in CSE.	Indian Institute of Technology Jodhpur	2012-*	8.43/10
Higher Secondary School (XII)	Narayana Junior College, Hyderabad	2012	97.30%
Board of Secondary Education(X)	St. John's High School, Hyderabad.	2010	93.16%

* - Expected to be completed in 2016

INTERNSHIP

Ather Energy   [May '15]
- Worked on Embedded Firmware development, ported the Android operating system on to the development board
- Building of android system by building own android images, booted the target system using these images
- Developed the applications required for the user-vehicle interaction i.e., android applications to access sensors and to communicate with the USB devices

ACADEMIC PROJECTS

Food Understanding from Digital Images   [Current]
- Implementation of a flexible system to classify digital images of food. Mainly involves feature extraction from the image and its subsequent classification based on the extracted features
- This system can be used for medical purposes such as monitoring dietary system of individuals

Design/Clone of graphical model of Train Traffic Simulator (Java)   [September '14]
- Implemented an efficient algorithm to schedule the arrival and departure of trains on the available platforms
- Modelled a GUI platform for this, used MySQL database to store schedule, details of trains
- Covered functional, non-functional, interface requirements and safety conditions in the software requirements specifications of a scheduler

Multiuser chat Application (Java)   [April '15]
- Developed a multi-client Server chat application using sockets. Support for features like user-signup, user-login, File transfer, save chat history to a file
- Clients can send messages to a single person or to all the clients who are actively connected to the server, Files can be transferred only if the client at the receiver end accepts the request

Simulation of CPU Scheduler (C)   [March '15]
- Simulated a CPU scheduler which creates and schedules the processes which run concurrently
- Analyzed the performance of various scheduling algorithms (FCFS, SJF, Priority based, Round Robin etc.,)

Virtual Memory Management(C)   [March '15]
- Simulated virtual memory management, analyzed the performance using various page replacement techniques like LRU(Least Recently Used), Clock algorithm, FIFO(First In First Out) by varying the page size
- These techniques uses pure demand paging technique with and without pre-paging feature

Library Management System (C++)   [November '13]
- Implemented a fully functional library management system with features involving issue, re-issue and renewal of books
- It is done with efficient file handling and used "Splay trees", so that most recent accesses gets easier

Design of micro-Facebook   [April'15]
- An extensive study on the algorithms used for Search Engine and News Feed of social networking site Facebook
- Search Engine uses Natural language interface to search in the semantic network of friends

SCHOLASTIC ACHIEVEMENTS
- Selected for Central Sector Scheme of Scholarship for college and University students for the year 2012-2013

POSITIONS OF RESPONSIBILITIES
- Girl's **Hospitality coordinator** in Annual inter-college National Sports-festival **VARCHAS'14**
- **Assistant- coordinator** of Public Relations and Hospitality in Annual inter-college Techno-Cult-fest **IGNUS'14**

EXTRA-CURRICULAR ACTIVITIES
- Volleyball player in **Inter IIT sports meet** 2012, 2013 & 2014, national level tournament participated by all IIT's across India
- Won silver medal in Volleyball for two consecutive years 2013,2014 in National Sports-fest **Varchas**